

airmoVOC C₂C₆

Designed for analysis + monitoring of "light" hydrocarbons. It is used for the measurement of volatile hydrocarbon in the range of C₂ to C₆ i.e. from Ethane through 1,3-Butadiene up to Benzene (and other C₆ compounds).

**Model: A11000****Environment:**

Urban / Non urban area pollution control
 Indoor measurements
 BTEX / PAMS / CE analysis
 Plant / process emissions

Toxicity:

Benzene, 1,3-butadiene
 VOC screening of CO₂ quality for the food and beverage industry

Process:

Industrial Hygiene
 Fence line monitoring
 Acetaldehyde/benzene



Chromatotec® is specialised in VOC, Sulfur and permanent gases analysis at trace and ultra trace levels (ppm, ppb, ppt).
 Please visit our website for more details.

Updated: July 2013

Butenes**Acetylene****Ethane****1,3-butadiene****Pentenes**

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of C₂ to C₆ i.e. from Ethane through 1,3-Butadiene up to Benzene
(and other C₆ compounds).

Principle:

The instrument uses a 6-port valve with a single sorbent trap, and a metallic capillary column.
It has a minimum detection level as low as 15 ppt (for **1,3-Butadiene** for e.g.) in ambient air, and analyses up to 32 compounds during a single analysis.

The **airmo VOC C₂ - C₆** uses a **thermoelectric cooling** system to control the temperature of the sample trap when required, for example for the analysis of **Ethyne**.

Miniaturization, sensitivity, mobility and flexibility are its main features.

Everything from the sample port up to the data storage is integrated in a 19"- rack 4U.

Programmed gradient temperature of the oven and pressure/flow control of the carrier gas by the **piezo-valve**.

Before delivery the analyser is tested for one week by our quality control department.

The Vistachrom software enables the user to view and store data on a PC. It provides comfortable user friendly utilities to recalculate, calibrate and export data and to configure the measurement.

The software allows the calculation of retention time, area, mass or concentration profiles.

Example of analysed VOC's

PAMS Photochemical Assessment Monitoring Stations	USA	EUR
<i>All VOC below can be analysed</i>	20/55 AIRS FORMAT*	17/30
Ethane C₂	43202	X
Ethylène/Ethene	43203	X
Acétylène/Ethyne	43206	X
Propane C₃	43204	X
Propylène/Propène	43205	X
iso-butane (2-methyl propane)	43214	X
N-butane C₄	43212	X
1-butène	43280	X
Iso-butene (2-methyl propene)	43215	
Trans-2-butène	43216	X
Propyne		
Cis-2-butène	43217	X
1,3 butadiène		X
Cyclopentane	43242	
iso-pentane (2-méthyl butane)	43221	X
N-pentane C₅	43220	X
1-pentène	43224	X
Trans-2-pentène	43226	X
Cis-2-pentène	43227	X

Product technical specifications:

Light COV analysis:

- C₂ to C₆

Detection limit:

- 15 ppt for 1,3-Butadiene or 33 ng/m³

Detection range:

- 0.033 to 500 µg/m³ of 1,3-Butadiene

Relative Standard Deviation:

- < 0.3 % over 48h (RT)
- < 3 % over 48 h (Conc.)

Results:

- Data storage
- 4-20mA current output (option)
- MODBUS / JBUS or MGS1 communication protocol (option)

Cycle time:

- 30 min as standard (20 min. optional)

Gas supply:

- H₂ (FID and carrier gas): 30 ml/min (inlet 2 bars; 1/16" swagelock)
- Air (FID): 180 ml/min (inlet 3 bars; 1/8" swagelock)
- Sample inlet (vacuum pump) 1/4" swagelock

Sample volume:

- 20 to 240 ml (programmable)

Power supply:

- Main: 230V / 115V or 50 Hz / 60Hz
- Battery: 24V (option)

Electrical consumption:

- Mean: 150 VA, peak 360 VA

Dimensions and weight:

- Rack: 19" - (4U)
- Height: 180mm
- Width: 482mm
- Depth: 600mm
- Net weight : 17 Kg



Options:

- On-line results are transmitted via a MODBUS / JBUS or MGS1 communication protocol
- Analog output 4-20 mA or 0-10 V
- **Automatic** validation / calibration
- 24 V power supply
- Hydrogen and zero air generator for transportable analysers.
- Multiple Stream selector (2 to 6)

For ordering:

- airmoVOC C₂C₆ (4U) (with internal cooling)
Needs a 5U supervisor
- Supervisor (5U)
Chromatotec® computer 5U, LCD display,
Vistachrom software, 2 x RS232

Model:

A11000
XXX015

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